

Listing of Claims:

1. (Currently Amended) A chemical reactor comprising:
a pair of substrates joined to each other;
a micro flow path provided between the pair of substrates;

and

5 an injection section which injects and supplies a material
into the micro flow path by an inkjet head, wherein the material
includes a liquid oxidizing agent to cause a chemical reaction
one of: (i) an oxidation reaction which oxidizes carbon monoxide
in a fuel including hydrogen in the micro flow path, and (ii) a
10 combustion reaction which combusts a combustion fuel with the
liquid oxidizing agent into the flow path.

2. (Original) The chemical reactor according to claim 1,
wherein the injection section is supplied with the material from
a material storage container provided outside the pair of
substrates.

3. (Currently Amended) The chemical reactor according to
claim 1, wherein the material includes an the liquid oxidizing
agent produces, and oxygen is produced from the injected
oxidizing agent in the micro flow path.

4. (Currently Amended) The chemical reactor according to claim 3, wherein oxygen produced from the liquid oxidizing agent and carbon monoxide contained in a differently supplied fluid react in the micro flow path to produce carbon dioxide.

5. (Currently Amended) The chemical reactor according to claim 1, wherein ~~the material includes an~~ the liquid oxidizing agent, ~~and is mixed with a~~ the combustion fuel in the micro flow path to combust the combustion fuel, thereby generating heat energy.

5. (Currently Amended) The chemical reactor according to claim 1, wherein the material includes ~~an oxidizing agent and a~~ the combustion fuel, and wherein the combustion fuel is combusted by the liquid oxidizing agent in the micro flow path to generate heat energy.

Claim 7 (Canceled).

8. (Currently Amended) The chemical reactor according to claim 1 [[7]], wherein the material includes one of hydrogen peroxide, a ~~or its~~ solution of hydrogen peroxide, and ~~or~~ a dinitrogen monoxide solution.

Claim 9 (Canceled).

10. (Currently Amended) The chemical reactor according to claim 1, wherein the inkjet head injection section includes an injection mechanism which injects the liquid material ~~in~~ via a nozzle in a particle form by pressure due to air bubbles that are 5 produced in the nozzle by film boiling through heating the material in the nozzle.

11. (Currently Amended) The chemical reactor according to claim 1, further comprising a heat source for heating the micro flow path.

12. (Original) The chemical reactor according to claim 11, wherein the heat source has a thin film heater.

13. (Currently Amended) The chemical reactor according to claim 11, wherein the heat source has a thermal fluid to be supplied in a flow path provided in a surface of one of the pair of substrates which is opposite to a surface facing the other one 5 of the pair of substrates substrate.

14. (Original) The chemical reactor according to claim 11, wherein the heat source has a combustion reaction furnace which achieves heating by combusting the combustion fuel.

15. (Currently Amended) The chemical reactor according to claim 14, ~~further comprising an~~ wherein the injection section which injects and supplies the combustion fuel.

16. (Currently Amended) A chemical reactor comprising:
a micro reactor which causes ~~an oxidative reaction~~ one of:
(i) an oxidation reaction which oxidizes carbon monoxide with a
liquid oxidizing agent in a furnace, wherein the carbon monoxide
5 is in a fuel including hydrogen, and (ii) a combustion reaction
which combusts a combustion fuel with the liquid oxidizing agent
in a the furnace; and

an oxidizing agent supply section which supplies the a
liquid oxidizing agent into the furnace by an inkjet head.

Claim 17 (Canceled).

18. (Currently Amended) The chemical reactor according to claim 16, wherein the oxidizing agent includes one of hydrogen peroxide, a or its solution of hydrogen peroxide, and or a dinitrogen monoxide solution.